

KL-220C — High-Precision Test Cable

High-Precision Test Cable — Flexible, Low-VSWR Construction



Structure & Materials

| Element          | Dimension (mm) | Material                           |
|------------------|----------------|------------------------------------|
| Center Conductor | 0.50           | Silver-Plated Copper               |
| Dielectric       | 1.38           | Low-Density PTFE                   |
| Inner Shield     | 1.54           | Silver-Plated Copper Tape          |
| Middle Layer     | 1.82           | Low-Density PTFE (Reinforcement)   |
| Outer Shield     | 2.17           | Silver-Plated Copper Braid         |
| Outer Jacket     | 2.45           | Blue FEP (Custom Colors Available) |

Electrical Properties

| Parameter                       | Value       |
|---------------------------------|-------------|
| Operating Frequency             | DC – 67 GHz |
| Cutoff Frequency                | 82 GHz      |
| Characteristic Impedance        | 50 Ω        |
| Velocity of Propagation         | 81%         |
| Shielding Effectiveness         | > 90 dB     |
| Dielectric Withstanding Voltage | 800 V DC    |

Attenuation & Power Handling (Typical, 25°C / 40°C)

| Frequency (MHz)       | 1000  | 2000  | 3000  | 6000  | 8000  | 10000 | 12400 | 18000 | 26500 | 40000 | 67000 |
|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Attenuation (dB/100m) | 63.7  | 90.8  | 111.9 | 160.4 | 186.5 | 209.8 | 235.2 | 287.1 | 354.0 | 444.0 | 593.2 |
| Avg. Power (kW)       | 0.110 | 0.077 | 0.063 | 0.044 | 0.038 | 0.033 | 0.030 | 0.024 | 0.020 | 0.016 | 0.012 |

Mechanical & Environmental

| Static Bend Radius | Dynamic Bend Radius | Weight     | Operating Temperature |
|--------------------|---------------------|------------|-----------------------|
| 12.5 mm            | 24.5 mm             | 0.016 kg/m | –55°C ~ +165°C        |

Features & Benefits

- Low insertion loss
- Low VSWR
- Flex and vibration resistant

Typical Applications

- Airborne electronics
- Electronic warfare (EW)
- Laboratory test
- RF / microwave device test